

# **CEC-Plus Release Notes**

MANU0219-03 Revision A May 14, 1998

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# **TABLE OF CONTENTS**

1.0 PURPOSE OF RELEASE NOTES	1
2.0 SYSTEM REQUIREMENTS	1
3.0 KEY FEATURES	1
4.0 KNOWN ISSUES OR CONCERNS	2
5.0 CONTACTING TECHNICAL SUPPORT	3

# **TABLE OF CONTENTS**

## 1.0 Purpose of Release Notes

These release notes highlight the operational features and known issues associated with the CEC-Plus.

## 2.0 System Requirements

The CEC-Plus is supported by *ForeThought* 5.2.x and greater in the following devices:

- the TNX-1100 ATM Switch
- the ForeRunner ASX-1000 ATM Switch

# 3.0 Key Features

The CEC-Plus is an intelligent environmental/timing management subsystem. Some of the features of the CEC-Plus include:

- Support for Stratum 3 or 4 timing synchronization (derived from an external DS1 or E1 source, RJ-48C input and output)
- Hitless switching of timing references (when using BITS or line timing)
- Redundant timing input sources
- Support for the following timing modes:
  - BITS (external timing)
  - Automatic (port recovered or line timing)
  - Freerun (timing from internal oscillator)
- Hot-swappability
- Redundant environmental monitoring and alarm relay capability

CEC-Plus Release Notes 1

### 4.0 Known Issues or Concerns

- It is important that the switch software and the TCM software are at the same revision level; e.g., if you upgrade the TCM software to T\_ForeThought\_5.2.0, then the switch software on the SCPs must be upgraded to S\_ForeThought\_5.2.0, and vice versa. It does not matter in which order you upgrade the software. However, there will be a temporary disruption in the timing until the entire upgrade is complete.
- The BITS Tx port from one TCM must never be connected to the BITS Rx port of a second (redundant) TCM in the same chassis. This will result in a timing loop, producing undesirable behavior.
- Redundant TCMs do not support hitless failover between BITS sources if the BITS clocks are a different frequency (i.e., they are not traceable to the same source).
- The PLL status on the standby TCM may be misleading if:
  - the master TCM is in freerun
  - the master TCM is in holdover

In these cases, the master reports freerun or holdover while the standby reports locked. This occurs because the standby TCM is actually locking to the master TCM's output so that a failure of the master TCM will not cause a timing hit.

- The CEC-Plus is incompatible in a switch or concentrator that is equipped with model A
  AC power supplies because of excessive electromagnetic interference. If the CEC-Plus is
  used in an AC-powered unit, the power supplies <u>must</u> be model B supplies.
- To ensure proper operation when using a bootp server with the CEC-Plus and redundant SCPs, the following must be addressed:
  - Each SCP must have a unique IP address in the bootptab file. (See the documentation that came with your specific switch or concentrator for more information.)
  - A single IP address should be assigned to both SCPs when operational.
- The Ethernet port is not designed to forward IP traffic that is destined for an IP address that
  is external to the switch. The Ethernet port on the CEC-Plus is intended to be used <u>only</u> for
  out-of-band management of TCMs and SCPs within the switch. Therefore, you cannot configure the switch as an IP router.
- A primary TCM in slot X is unable to ping the ie1 (backplane Ethernet) interface of a standby TCM in slot Y, but is able to ping the ie0 (front panel Ethernet) interface of the TCM in slot Y. This is not a bug. The primary TCM's inability to ping the standby TCM's ie1 interface does not pre-empt any functionality, since there is full communication path between the TCMs.
- SCPs cannot ping the ie0 (front panel Ethernet) interface of the TCM.
- Ethernet attached devices external to the TCM cannot ping the ie1 (backplane Ethernet) interface of the active TCM.
- Use of the front panel Ethernet interfaces on the SCPs will prevent the CEC-Plus from working properly.
- For proper operation of the CEC-Plus, both Ethernet interfaces on both TCMs and all SCP Ethernet interfaces must be on the same subnet with the same netmask.
- When using the CEC-Plus in automatic mode, the primary and secondary timing references cannot be defined on the same network module.
- When using the CEC-Plus in a switch or concentrator that is populated with CEM network
  modules, if timing is recovered from a port on a CEM network module, timing cannot be
  distributed (via the CEC-Plus) to the ports on that CEM network module.

2 CEC-Plus Release Notes

## 5.0 Contacting Technical Support

In the U.S.A., customers can reach FORE Systems' Technical Assistance Center (TAC) using any one of the following methods:

1. Select the "Support" link from FORE's World Wide Web page:

#### http://www.fore.com/

2. Send questions, via e-mail, to:

#### support@fore.com

3. Telephone questions to "support" at:

#### 800-671-FORE (3673) or 724-742-6999

4. FAX questions to "support" at:

#### 724-742-7900

Technical support for customers outside the United States should be handled through the local distributor or via telephone at the following number:

#### +1 724-742-6999

No matter which method is used to reach FORE Support, customers should be ready to provide the following:

- A support contract ID number
- The serial number of each product in question
- All relevant information describing the problem or question

CEC-Plus Release Notes 3